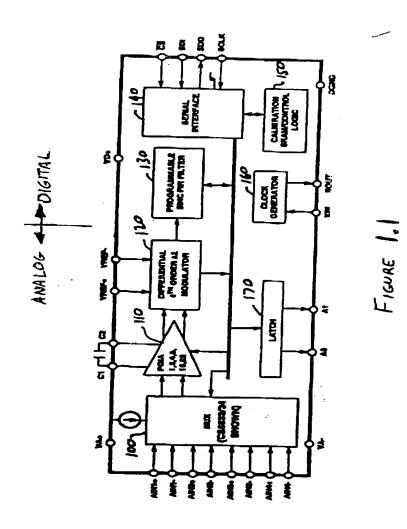
P



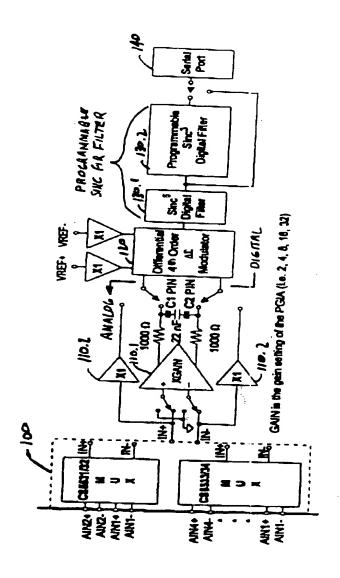


FIGURE 1.2

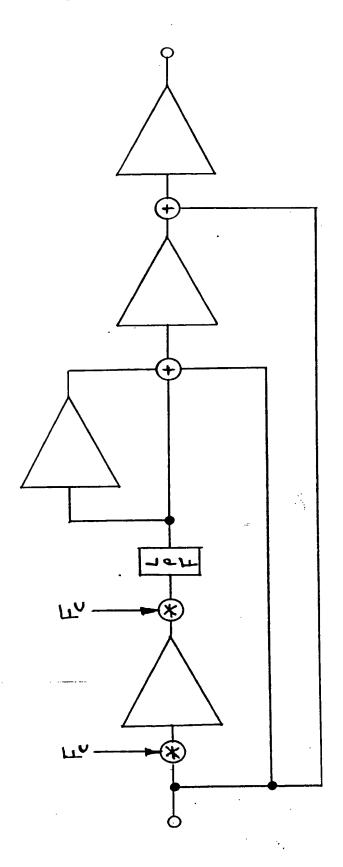


FIGURE 1.3

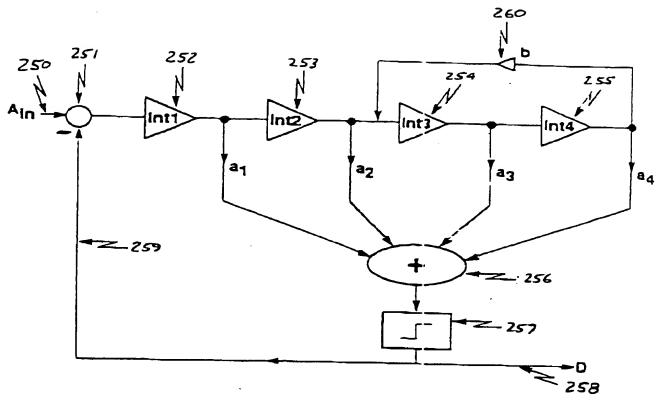
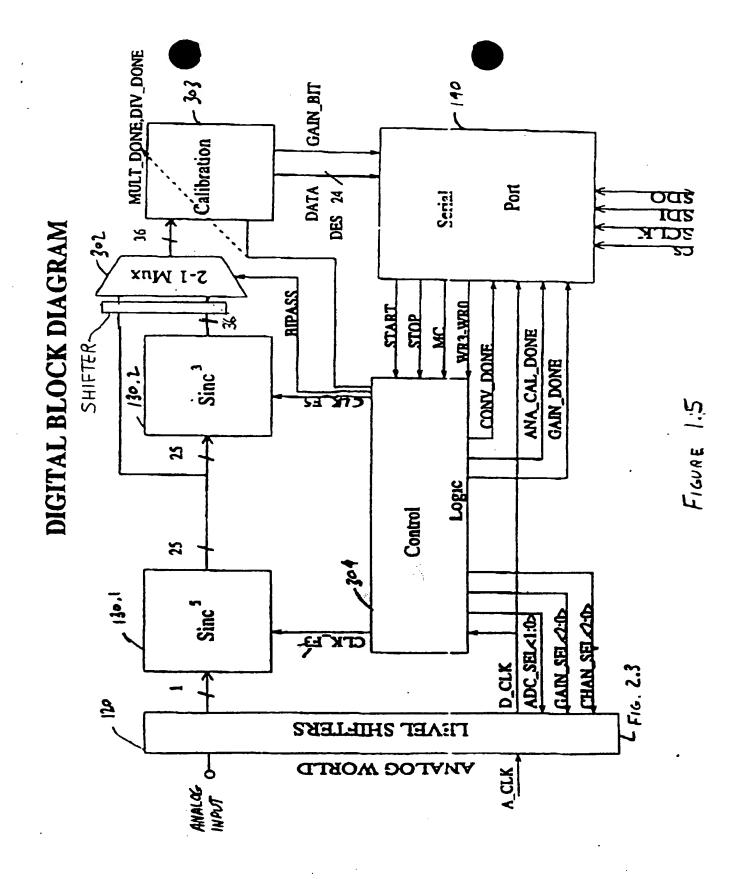
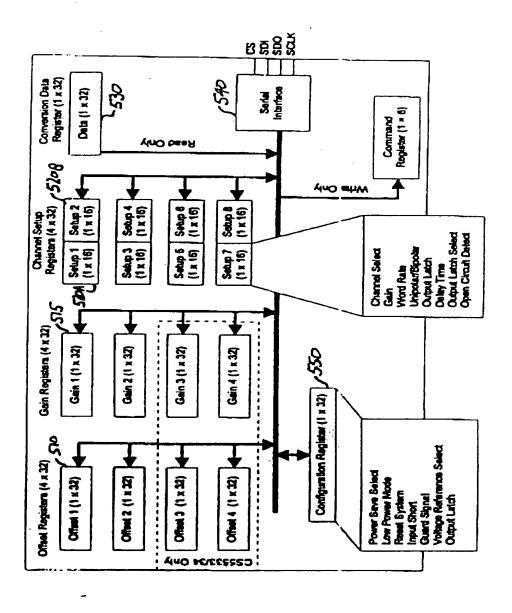


Figure 1.4





Floure 1.6

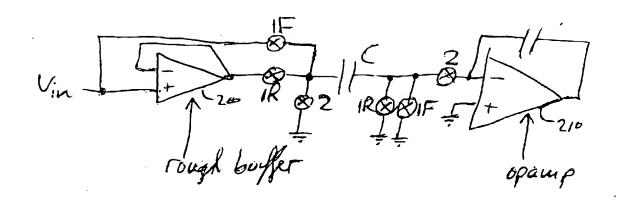


FIGURE 2.0

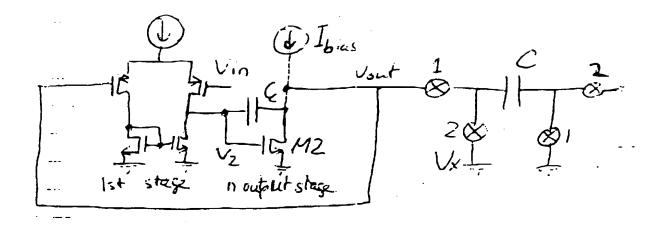


FIGURE 2.1

VIN = CONSTANT

Vous > VX

Vin Deginning of phose 1

FIGURE 2.2

VIN = GHSTANT

Var L Vx

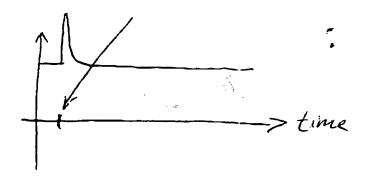


FIGURE 2.3

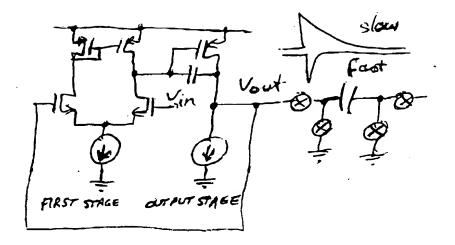


FIGURE 2.4

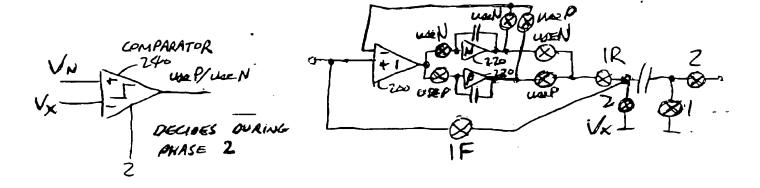
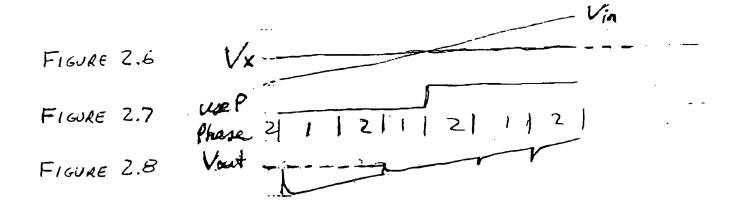
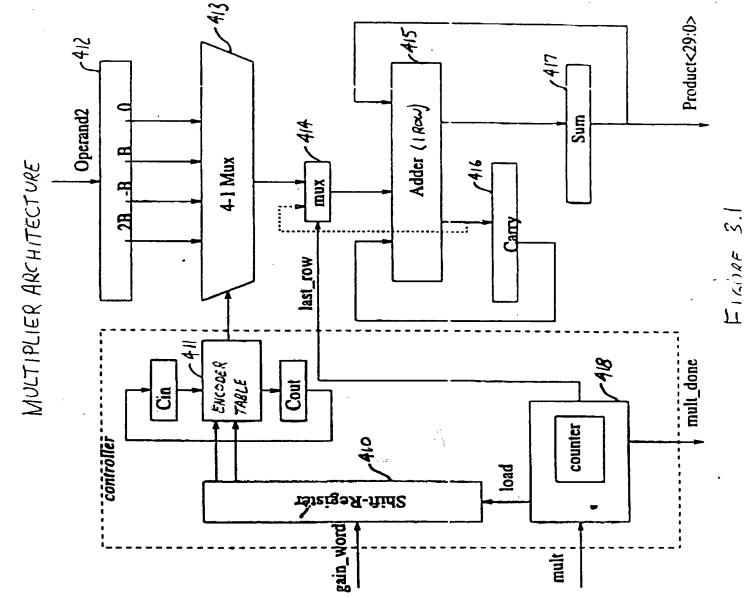


FIGURE 2.5





Multiplication

FIGURE 3.2 (PRIOR ART)

Table 2: Encoding Scheme Proposed

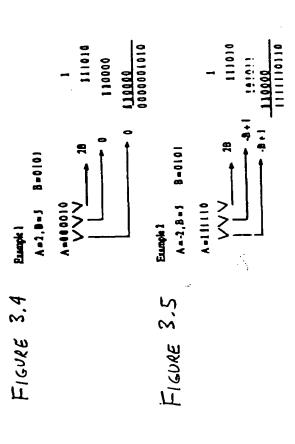
A_{i+1} A_i Operation

0 0 $R_i = R_{i-1}/4$ 0 1 $R_i = (R_{i-1} + B)/4$ 1 0 $R_i = (R_{i-1} + 2B)/4$ 1 1 $R_i = (R_{i-1} + 3B)/4$

FIGURE 3.3 (PRIOR ART)

cheme	Cet	0	0	0	7	0	0	0	1
Table 3: Carry Propagate Encoding Scheme	Operation	$R_i = R_{i-1}/4$	$R_i = (R_{i-1} + B)/4$	$R_i = (R_{i-1} + 2B)/4$	$ K_i = (K_{i-1} - B)/4$	$R_i = (R_{i-1} + B)/4$	$R_i = (R_{i-1} + 2B)/4$	$R_i = (R_{i-1} - B)/4$	$R_i = (R_{i-1})/4$
	¥	0	-	0	1	0	I	0	1
	Ai+1	0	0	1	۲.	0	0		-
	ర్త్	0	0	0	0	_		-	1

Multiplication



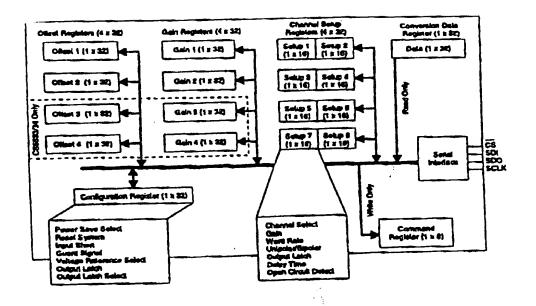


FIGURE 4.1

D7(N	ISB)	D6	D 5	D4	DS	D2	D1	Do -			
0		ARA	CS1	CSO	₽₩	RSB2	RSB1	RSB0			
віт	NAM	ΙE	VALUE	FUNCTION							
D7	D7 Command Bit, C		0 1	Must be logic 0 for these commands. These commands are invalid if this bit is logic 1.							
D6	Access Registers as Arrays, ARA		0	Ignore this function. Access the respective registers, offset, gain, or channel-setup, as an array of registers. The particular registers accessed are determined by the RS bits. The registers are accessed MSB first with physical channel 0 accessed first followed by physical channel 1 next and so forth.							
D5-D4	-D4 Channel Select Bits, CS1-CS0		00 01 10 11	C61-CS0 provide the address of one of the two (four for CS5533/34) physical input channels. These bits are also used to access the calibration registers associated with the respective physical input channel. Note that these bits are ignored when reading data register.							
D3	Read/Write, R/W		0 1	Write to selected register. Read from selected register.							
D2-D6	2-D0 Register Select Bit, RSB3-RSB0		000 001 010 011 100 101 110 111	Reserved Offset Register Gain Register Configuration Regis Conversion Data R Charmol-Setup Regis Reserved Reserved	egister (Read O	nly)					

FIGURE 4.2

D7(MSB) D6		D6	D5	D4	D3	D2	D1	DO			
		CSRP2	CERP1	CSRPO	ccs	CC1	CCO				
тв	NAN	Æ	VALUE !	FUNCTION							
D7	Command Bit, C			These commands are invalid if this bit is logic 0. Must be logic 1 for these commands.							
D6	Multiple Conversions, MC			Perform fully settled single conversions. Perform conversions continuously.							
D5-D3	Channel-Setup Reg- leter Pointer Bits, CSRP		100	These bits are used version or continue pointed to by these	us conversions						
D2-D0	Conversion/Calibration Bits, CC2-CC0		001 5 010 6 011 6 100 6	Normal Conversion Self-Offset Calibrat Self-Gain Calibratk Reserved System-Offset Calib System-Offset Calib System-Gain Calib	ion on bration			-			

FIGURE 4.3

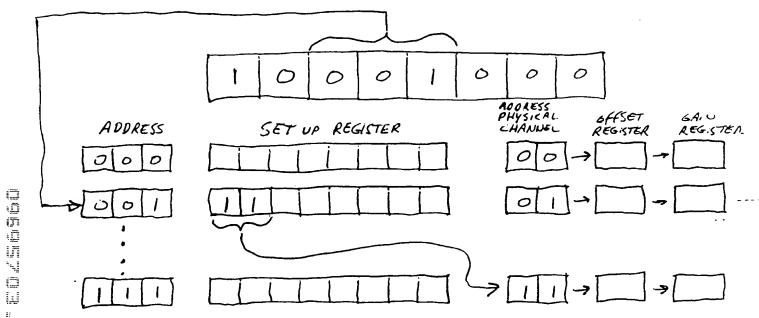
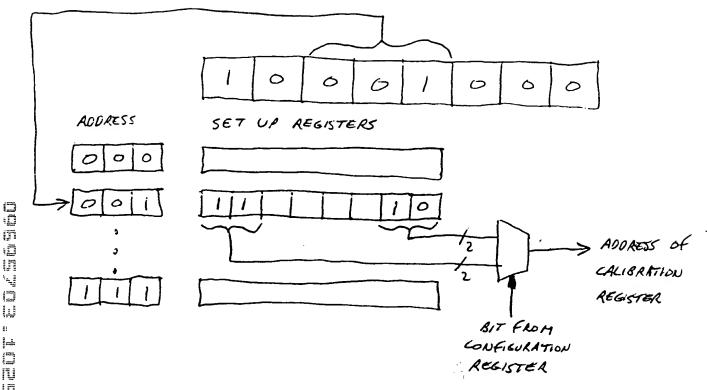


FIGURE 4.4



_ FIGURE 4.5

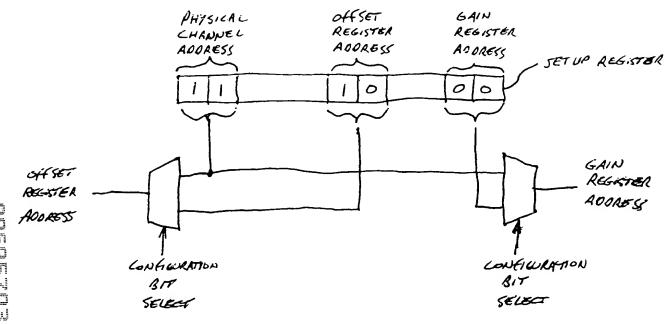


FIGURE 4.6

FIGURE 5.1

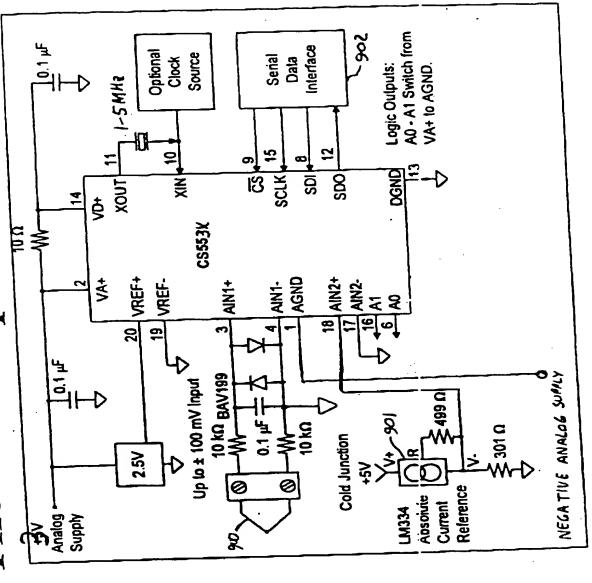


FIGURE 6.1

Bridge Transducer Application

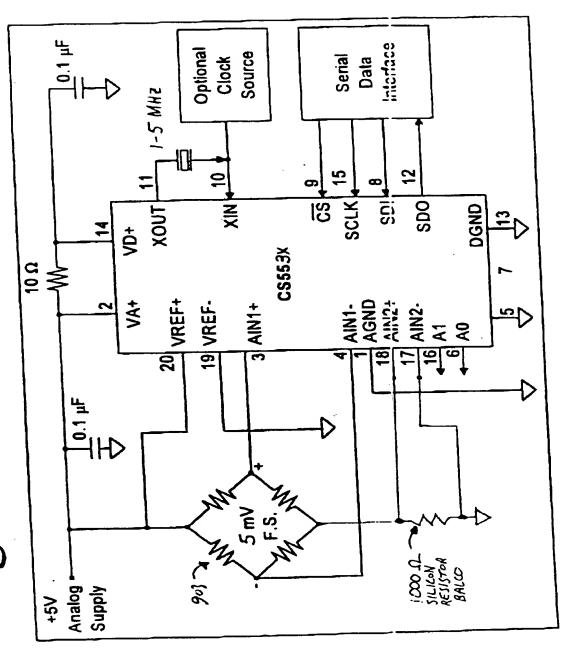


FIGURE 6.2